

Animal Units

Identification_Information:

Citation:

Citation_Information:

Originator: your name

Publication_Date: 1999

Title: 1997 Animal Units

Publication_Information:

Publication_Place: Annapolis, MD

Publisher: Maryland Department of Natural Resources

Description:

Abstract:

Animal units representing 1000 pounds of a particular animal type were derived from animal numbers reported in the 1997 USDA-NASS Census of Agriculture. Animals represented include: beef cows, dairy cows, swine, poultry layers less than 3 pounds, poultry layers greater than 3 pounds, and turkeys. Animal units are used estimate the amount of manure voided in a particular area. The county based-numbers were distributed to Chesapeake Bay Program Phase 4.2 Watershed Model county-segments using the ratio of herbaceous acres in each of the county-segment to total county herbaceous acres.

Purpose:

Manure provides nutrients that may be utilized by crops. The manure is also a source of nutrient runoff to nearby streams and infiltration to ground water. Manure may either be voided in confined areas or unconfined areas. Manure voided in unconfined areas is assumed to occur in pastureland in the Chesapeake Bay Program's Phase 4.2 Watershed Model. Manure voided in confined areas may be stored for future application on land when crops can utilize the nutrients, and when the soil and weather conditions are appropriate.

During the process of collecting and storing the manure, nutrients may be lost from the facility in the form of runoff. Assumptions are made in the model for each type of animal to determine how much manure is voided in confined areas and how much is susceptible to runoff from the facility.

Best management practices (BMP's) are employed on a portion of the confined manure to reduce runoff

from the facility.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 1997

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -79.4938

East_Bounding_Coordinate: -75.045

North_Bounding_Coordinate: 39.7425

South_Bounding_Coordinate: 37.8713

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: animal

Theme_Keyword: manure

Theme_Keyword: Agriculture Census

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Maryland

Access_Constraints: none

Use_Constraints:

This watershed-oriented database represents the results of data collection and processing for specific Maryland Department of Natural Resources (DNR) planning activities and indicates generalized existing conditions for a certain time period as referenced in the metadata database form. As such, it is only valid for this intended use and time. The user is responsible for the results of any application of the data for other than their intended purpose. The information contained in this database is from publicly available sources, but no representation is made as to the accuracy or completeness of the data. Acknowledgement of the Maryland DNR/CCWS is requested for products derived from the data.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Ken Miller

Contact_Position: Section Chief

Contact_Address:

Address_Type: mailing address

Address: Tawes State Office Building, D-2

Address: 580 Taylor Avenue

City: Annapolis

State_or_Province: MD

Postal_Code: 21401

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Hours_of_Service: 8:30 - 4:30 Monday to Friday

Data_Quality_Information:

Lineage:

Source_Information:

Source_Citation:

Type_of_Source_Media: electronic mail system

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 1997

Source_Currentness_Reference: the publication date

Source_Citation_Abbreviation: au1997

Source_Contribution:

provides animal units by county segment, derived
from county populations provided in the 1997

Agriculture Census

Source_Information:

Source_Citation:

Citation_Information:

Originator: EPA - CBPO

Publication_Date: 1999

Title: Phase 4.2 County Segments

Type_of_Source_Media: disc

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 1999

Source_Currentness_Reference: the publication date

Source_Citation_Abbreviation: cosegs

Source_Contribution: shape file of CBP Watershed Model county segments

Process_Step:

Process_Description: 1997 Animal units were mapped by county sement.

Source_Used_Citation_Abbreviation: au1997

Source_Used_Citation_Abbreviation: cosegs

Process_Date: 1999

Process_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Kevin J. Coyne

Contact_Organization: Maryland Department of Natural Resources

Contact_Position: Water Resources Engineer

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State_or_Province: MD

Postal_Code: 21401

Country: USA

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Hours_of_Service: 8:30 - 4:30

Spatial_Data_Organization_Information:

Spatial_Reference_Information:

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: Animal units

Entity_Type_Definition: number of animal units

Entity_Type_Definition_Source: EPA-CBPO

Attribute:

Attribute_Label: Coseg_ts

Attribute_Definition:

county-segment, tributary strategy identification
code

Attribute_Definition_Source: Maryland Dept of Natural Resources

Attribute_Domain_Values:

Unrepresentable_Domain:

combination of county-segment identification and
tributary strategy basin code

Attribute:

Attribute_Label: Segment

Attribute_Definition: Phase 4.2 Watershed Model Segment

Attribute_Definition_Source: EPA-CBPO

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: Phase 4.2 Watershed Model Segments

Codeset_Source: EPA-CBPO

Attribute:

Attribute_Label: Fips

Attribute_Definition:

county Federal Information Processing Standard
(FIPS) code

Attribute_Definition_Source:

Maintenance Agency - U.S. Department of Commerce,
Bureau of the Census, Geography Division

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: FIPS 6-4

Codeset_Source:

Maintenance Agency - U.S. Department of Commerce,
Bureau of the Census, Geography Division

Attribute:

Attribute_Label: area

Attribute_Definition: Area of polygon

Attribute_Definition_Source: Software computed

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 922858.176

Range_Domain_Maximum: 65167980230.091

Attribute_Units_of_Measure: square feet

Attribute:

Attribute_Label: Perimeter

Attribute_Definition: Perimeter of polygon

Attribute_Definition_Source: Software computed

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 5416.349

Range_Domain_Maximum: 31313515.546

Attribute_Units_of_Measure: feet

Attribute:

Attribute_Label: Acres

Attribute_Definition: area of county-segment in acres

Attribute_Definition_Source: EPA-CBPO

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 21.186

Range_Domain_Maximum: 1496050.969

Attribute_Units_of_Measure: acres

Attribute:

Attribute_Label: Stra_code

Attribute_Definition: Code for Tributary stratergy basin

Attribute_Definition_Source: Maryland Dept of Natural Resources

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: Strategy Codes

Codeset_Source: Maryland Dept of Natural Resources

Attribute:

Attribute_Label: Coseg

Attribute_Definition: Phase 4.2 Watershed Model County-Segment

Attribute_Definition_Source: EPA-CBPO

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: County-Segment

Codeset_Source: EPA-CBPO

Attribute:

Attribute_Label: County

Attribute_Definition: Maryland County Name

Attribute_Definition_Source: State of Maryland

Attribute_Domain_Values:

Unrepresentable_Domain: Character field

Attribute:

Attribute_Label: Straname

Attribute_Definition: name of tributary strategy basin

Attribute_Definition_Source: Maryland Department of Natural Resources

Attribute_Domain_Values:

Unrepresentable_Domain: Character field

Attribute:

Attribute_Label: Au_beef

Attribute_Definition: 1997 beef cow animal units

Attribute_Definition_Source: EPA-CBPO

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0.0000

Range_Domain_Maximum: 27911.0586

Attribute_Units_of_Measure: animal units

Attribute:

Attribute_Label: Au_swine

Attribute_Definition: 1997 swine animal units

Attribute_Definition_Source: EPA-CBPO

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0.0000

Range_Domain_Maximum: 1604.7770

Attribute_Units_of_Measure: animal units

Attribute:

Attribute_Label: Au_lay13

Attribute_Definition:

1997 poultry layers less than 3 pounds animal
units

Attribute_Definition_Source: EPA-CBPO
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0.0000
Range_Domain_Maximum: 2858.0813
Attribute_Units_of_Measure: animal units
Attribute:
Attribute_Label: Au_layg3
Attribute_Definition:
1997 poultry layers greater than 3 pounds animal
units
Attribute_Definition_Source: EPA-CBPO
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0.0000
Range_Domain_Maximum: 462.8696
Attribute_Units_of_Measure: animal units
Attribute:
Attribute_Label: Au_broil
Attribute_Definition: 1997 poultry broilers animal units
Attribute_Definition_Source: EPA-CBPO
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0.0000
Range_Domain_Maximum: 12565.3679
Attribute_Units_of_Measure: animal units
Attribute:
Attribute_Label: Au_turk
Attribute_Definition: 1997 turkeys animal units
Attribute_Definition_Source: EPA-CBPO
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0.0000
Range_Domain_Maximum: 1784.4303
Attribute_Units_of_Measure: animal units
Attribute:
Attribute_Label: Au_total
Attribute_Definition: 1997 total animal units
Attribute_Definition_Source: EPA-CBPO
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0.0000
Range_Domain_Maximum: 57191.9485
Attribute_Units_of_Measure: animal units
Attribute:

Attribute_Label: Au_poultry

Attribute_Definition: 1997 combined poultry (4 types) animal units

Attribute_Definition_Source: EPA-CBPO

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0.0000

Range_Domain_Maximum: 12693.0374

Attribute_Units_of_Measure: animal units

Attribute:

Attribute_Label: Au_other

Attribute_Definition:

1997 non-poultry (beef cows, dairy cows, swine)
animal units

Attribute_Definition_Source: EPA-CBPO

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 0.0000

Range_Domain_Maximum: 54747.7577

Attribute_Units_of_Measure: animal units

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Ken Miller

Contact_Position: Section Chief

Contact_Address:

Address_Type: mailing address

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Address: 580 Taylor Avenue

City: Annapolis

State_or_Province: MD

Postal_Code: 21401

Contact_Voice_Telephone: 410-260-8784

Contact_Facsimile_Telephone: 410-555-1234

Contact_Electronic_Mail_Address: kenmiller@dnr.state.md.us

Hours_of_Service: 8:30 - 4:30 Monday to Friday

Distribution_Liability:

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: DBF

Digital_Transfer_Option:

Offline_Option:

Offline_Media: 3-1/2 Inch Floppy Disk

Recording_Format: ISO 9660

Fees: cost of reproduction

Metadata_Reference_Information:

Metadata_Date: 19981207

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Ken Miller

Contact_Position: Section Chief

Contact_Address:

Address_Type: mailing address

Address: Tawes State Office Building, D-2

Address: 580 Taylor Avenue

City: Annapolis

State_or_Province: MD

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Contact_Voice_Telephone: 410-260-8784

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Contact_Electronic_Mail_Address: kenmiller@dnr.state.md.us

Hours_of_Service: 8:30 - 4:30 Monday to Friday

Metadata_Standard_Name: FGDC Content Standard For Digital Geospatial Metadata

Metadata_Standard_Version: June 8, 1994 (Version 1.0)

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None